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APPLICATION NO.	FI	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/721,251	11/26/2003		Shinji Maekawa	740756-2671	6128
22204	7590	10/06/2006		EXAMINER	
NIXON PE			KUNEMUND, ROBERT M		
401 9TH ST SUITE 900	REET, NV	V		ART UNIT	PAPER NUMBER
WASHING	TON, DC	20004-2128		1722	
				DATE MAILED: 10/06/2000	5

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	<u> </u>
	10/721,251	MAEKAWA ET AL.	
Office Action Summary	Examiner	Art Unit	
	Robert M. Kunemund	1722	
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address -	•
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period v - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin vill apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	N. nely filed the mailing date of this communica D (35 U.S.C. § 133).	
Status			
1) Responsive to communication(s) filed on 2a) This action is FINAL . 2b) ☑ This	 action is non-final.		
3) Since this application is in condition for allowar		secution as to the merits	s is
closed in accordance with the practice under E			
Disposition of Claims			
4) ☐ Claim(s) 1-18 is/are pending in the application. 4a) Of the above claim(s) is/are withdray 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-18 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/o	vn from consideration.		
Application Papers			
9) The specification is objected to by the Examine	r.		
10) The drawing(s) filed on is/are: a) acce	epted or b) objected to by the	Examiner.	
Applicant may not request that any objection to the			
Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Ex			
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priority application from the International Bureau * See the attached detailed Office action for a list	s have been received. s have been received in Applicati rity documents have been receive u (PCT Rule 17.2(a)).	on No ed in this National Stage	
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 11/03.	4) Interview Summary Paper No(s)/Mail D. 5) Notice of Informal F 6) Other:	ate	

DETAILED ACTION

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claims 1 to 4, 8 and 9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Yamazaki (2003/0059990).

The Yamazaki reference teaches a method of growing a semiconductor layer on a substrate, note entire reference. On a substrate, an amorphous layer is created which can be silicon. The layer then is treated with a metal like nickel. The metal is a catalyst when the amorphous layer is crystallized. The structure is heated ands treated with a laser to crystallize the amorphous silicon, note examples. The area where the metal getters are removed to lower impurities, note examples. The sole difference between

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the instant claims and the prior art is gettering site. However, in the absence of unexpected results, it would have been obvious to one of ordinary skill in the art to determine through routine experimentation the optimum, operable area, the top surface, in the Yamazaki reference to be removed in order to getter more of the metal lowering impurities.

Claims 5 to 7, and 10 to 20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Yamazaki (2003/0059990).

The Yamazaki reference is relied on for the same reasons as stated, supra, and differs form the instant claims in the etching type, metal mount and laser type. However, in the absence of unexpected results, it would have been obvious to one of ordinary skill in the art to determine through routine experimentation the optimum, operable etching means, metal left and laser type in the Yamazaki reference in order to ensure metal removal while not damaging the crystal and enhanced laser uniform scan.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Robert M. Kunemund whose telephone number is 571-272-1464. The examiner can normally be reached on 8 hours.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Yogendra Gupta can be reached on 571-272-1312. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000

Robert M Kunemund Primary Examiner Art Unit 1722

RMK